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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/523,937	11/16/2005	Jacques Latrille .	065691-0385	9440	
22428 7590 04/19/2007 FOLEY AND LARDNER LLP		EXAMINER			
SUITE 500			KIM, TAEYOON		
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER	
	.,, 20 2000		1651	٠.	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS		04/19/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensive of time may be available under the provided and 27 ER 1-13(0). In no event, however, may a say be timely filled. If NO pends for reply is specified above, the maximum statutory period will expire \$XI (6) MONTHS from the mailing date of this communication. Palmeter from the mailing date of this communication. Palmeter from the mailing date of this communication. Pends to reply the provided by the Chlorical test than three months after the mailing date of this communication, even if timely filed, may reduce any extence glacific true adjustment. See 37 CFR 1-174(b). Status 1) Responsive to communication(s) filed on 22 February 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 8-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 4-10 is/are allowed. 6) Claim(s) 5-10 is/are allowed. 6) Claim(s) 5-10 is/are allowed. 6) Claim(s) 5-10 is/are objected to by the Examiner. 7) Claim(s) 3-10 is/are allowed. 8) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c of the priority document			Application No.	Applicant(s)				
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be sevalation under the provisions of 3 CPR 11380, in one went, however, may rarely be timely liked. If NO period for reply is specified above, the maintained statutory period will apply and will eight early (8) MONTHS from the mailing date of this communication. Falluls to reply with the set or certified period for regly is specified above, the maintained patient will be application to be grave. Falluls to reply several patient term adjustment. Set 3 CPR 17402. Status Status Status Status Note Provide Providence Provid			Examiner	Art Unit				
Period for Reply A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. ***after SIX (8) MONTHS from the mailing date of the communication. **IN Depend for reply is sporified above, the maximum statistory pedrod along plan will export a problem to require date of this communication. **Failure to reply within the set or accordate period for reply will, by stating, cases the application to become ABANDONED (35 U.S.C. § 133). **Failure to reply within the set or accordate period for reply will, by stating, cases the application to become ABANDONED (35 U.S.C. § 133). **Failure to reply within the set or accordate period for reply will, by stating, cases the application, even if directly filled, may reduce any extended patient term adjustment. See 37 CPR 1704(a). **Pailure to reply within the set or accordance with the mailing date of this communication, even if directly filled, may reduce any extended patient term adjustment. See 37 CPR 1704(a). **Pailure to reply within the set or accordance with the mailing date of this communication, even if directly filled, may reduce any extended patient term adjustment. See 37 CPR 1704(a). **Pailure to reply within the set or accordance with the mailing date of this communication. **Pailure to reply within the set or accordance with the mailing date of this communication. **Pailure to reply within the set or accordance with the mailing date of this communication. **Pailure to reply within the set or accordance with the mailing date of this communication. **Pailure to reply within the set of the mailing date of this communication. **Pailure to reply within the set or accordance with the mailing date of this communication. **Pailure to reply within the application for the pailure and the mail the pailure and the mail the pailure and the mailure and the pailure and the mailure and the mailure and the mailure and the pailure and the mailure and the mailure and the mai			, ,					
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DETAILED ACTION

Claims 8-10 are pending.

Response to Amendment

Applicant's amendment and response filed on Feb. 2, 2007 has been received and entered into the case.

Claims 1-7 have been canceled, claims 8-10 are pending and have been considered on the merits. All arguments have been fully considered.

The rejections under 35 U.S.C.§112, 101, 102 and 103 have been withdrawn due to the amendment. Because of cancellation of the previously pending claims, the argument associated with the previous claim set is moot.

Claim Objections

Claim 10 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 3 appears to be a dependent claim. However, there is no indication of such dependency disclosed in the claim. For the examination purpose, claim 10 is interpreted as dependent to claim 9.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bini (US 6,020,181) in view of Nikonov et al. (1999).

Claims 8-10 are drawn to a method of producing an implantable prosthesis comprising a) providing an implantable medical prosthesis, b) purifying a liposome destabilase complex from medicinal leeches using an affinity chromatographic column having 6-keto-prostaglandin antibodies, c) eluting the purified liposome destabilase complex with a high ionic strength solution, and d) associating the eluated liposome destabilase complex with the implantable medical prosthesis (claim 8); an implantable medical prosthesis having a surface and a cladding, which comprises a liposome destabilase complex, covering a part of the surface (claim 9); a limitation to the implantable medical prosthesis being a stent support (claim 10).

Claim 9 is a product-by-process claim; claim 10 depends from the said claim.

M.P.E.P. § 2113 reads, "Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps."

"Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted).

The structure implied by the process steps should be considered when assessing the patentability of product-by-process claims over the prior art, especially where the product can only be defined by the process steps by which the product is made, or where the manufacturing process steps would be expected to impart distinctive

structural characteristics to the final product. See, e.g., *In re Garnero*, 412 F.2d 276, 279, 162 USPQ 221, 223 (CCPA 1979)

The use of 35 U.S.C. §§ 102 and 103 rejections for product-by-process claims has been approved by the courts. "[T]he lack of physical description in a product-by-process claim makes determination of the patentability of the claim more difficult, since in spite of the fact that the claim may recite only process limitations, it is the patentability of the product claimed and not of the recited process steps which must be established. We are therefore of the opinion that when the prior art discloses a product which reasonably appears to be either identical with or only slightly different than a product claimed in a product-by-process claim, a rejection based alternatively on either section 102 or section 103 of the statute is eminently fair and acceptable. As a practical matter, the Patent Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make physical comparisons therewith." *In re Brown*, 459 F.2d 531, 535, 173 USPQ 685, 688 (CCPA 1972).

Bini teaches a stent coated with an enzyme inhibiting thrombus formation and an example of such enzyme being obtained fibrinolytic enzymes from leeches with a reference of Zavalova et al., which discloses a destabilase (see column 3, lines 15-16; column 6, lines 46-49). The limitation of "cladding" is considered as any layer such as a coating. Bini teaches that a fibrinolytic enzyme can be employed as a coating (see column 10, line 16).

Nikonov et al. teach the liposome destabilase complex isolated from leeches by affinity chromatography using 6-keto-prostaglandin antibodies (see Material and Methods) and having a fibrinolytic activity. Nikonov et al. also teach the elution of liposome destabilase complex with 0.2 M glycine, which is a high ionic solution well known in the art. Since the liposome destabilase complex of Nikonov et al. is identical as the liposome destabiliase complex of the current application, the property of the complex having anticoagulating and immunomodulatory activity would be also the same.

It would therefore have been obvious for the person of ordinary skill in the art at the time the invention was made to use the liposome destabilase complex of Nikonov et al. for the stent taught by Bini.

The skilled artisan would have been motivated to make such a modification because Bini teaches a stent coated with a fibrinolytic enzyme and that such enzyme is present in the destabilase complex of Nikonov et al. Furthermore, Bini discloses the fibrinolytic enzyme preferably in combination with a thrombolytic agents to improve thrombolytic and fibrinolytic therapy (see Abstract). Since the destabilase complex of Nikonov et al. has both fibrinolytic activity and anti-thrombin (thrombolytic) activity provided by hirudin in the complex, a person of ordinary skill in the art would have been motivated to use the complex of Nikonov et al. in the stent support of Bini.

The person of ordinary skill in the art would have had a reasonable expectation of success in the use of the complex of Nikonov et al. as a coating of a stent taught by

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Bini because the stent of Bini can successfully have a coating of enzymes having a thrombolytic and a fibrinolytic activity.

Therefore, the invention as a whole would have been prima facie obvious to a person of ordinary skill at the time the invention was made.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taeyoon Kim whose telephone number is 571-272-9041. The examiner can normally be reached on 8:00 am - 4:30 pm ET (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Taeyoon Kim Patent Examiner Art Unit 1651 Leon B Lankford, Jr Primary Examiner